Toolset On-line User Guide:

Audit

HP/ElectraLink DTS

Copyright © 2003, 2004-2009 Hewlett-Packard Development Company, L.P.

Table of Contents

1 DOCUMENT AUTHORISATION 3

2 THE AUDIT TOOL 5

2.1 To Access The Audit Tool 5

2.2 Message Search Criteria/Results Page 1 6

2.3 Searching for a Message 6

2.4 Search Criteria 7

2.5 Message Search Results Table 11

2.6 Message Search Criteria/Results Page 2 12

2.7 Criteria File Format 13

2.8 Performing Multiple Searches 14

2.9 Message Details 16

2.10 MPAN List 19

2.11 Extracting Results to a File. 19

2.12 Sorting Results 20

2.13 Successful Message Transmission 20

2.14 Message Codes and States 22

 Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

1 DOCUMENT AUTHORISATION

DOCUMENT TITLE	ISSUE	DATE
HP/ElectraLink DTS – Toolset On-line User Guide	1.1	4th July 2011

	NAME	SIGNATURE	DATE
AUTHOR(S)	Gareth Hughes		
REVIEWER(S)			
HP	Alan McDonald		
ElectraLink	Mark Pearce		
	NAME	SIGNATURE	DATE
ON BEHALF OF HP			
ON BEHALF OF ELECTRALINK			

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

Document Control

CURRENT VERSION: 1.1

Project Name:	HP/ElectraLink DTS	Doc. Version No:	1.1	Date:	4th July 2011
Status:	Production	(Doc. Version No. and Date are used for configuration control of deliverables.)			

AMENDMENT HISTORY:

Document Version #	Version Date	Author	Section, Page(s)and Text Revised
1.0	15th June 2011	Gareth Hughes	CCN1251 – Split User Guide into separate documents. Created from version 3.9 of the original user Guide.
1.1	4th July 2011	Gareth Hughes	Changes following ElectraLink review.

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

2 THE AUDIT TOOL

The DTS records details of all file transfers and their progress through the service in a database. This is done through a logging & tracking subsystem known as the Audit Tool, which allows a user to view details of any file successfully delivered into the Gateway and all files that were sent out via the Gateway for which they are authorised.

The Audit Tool allows the User to monitor Messages to and from each Gateway to which they have access. A User may have access to more than one Gateway.

Users are able to view Messages for the last 6 months. An error will be displayed if the supplied date range is wholly before this period. If the date range is only partially before the 6 month period then a warning is displayed and the user prompted to confirm the search. If a User wishes to view Message information from an earlier date then they must contact the Remote Management Centre (RMC) as described in the Toolset On-line user Guide: Overview.

Audit Screens can be refreshed allowing real time monitoring of Messages so that a User always has access to the most recent information about their Messages.

Users are also able to perform multiple searches in one search operation by uploading a file containing supplemental search criteria.

The Audit Tool tracks a Message from the time it is received by the local Gateway from the originating Host until the time it is sent by the recipient Gateway to the recipient Host.

Once a user has logged on to the system, (by entering their User ID and Password), they will have access to the toolset menu and see either Audit, ACMT or both and other menu items – My Settings and Reports.

2.1 TO ACCESS THE AUDIT TOOL

1. To access the Audit Tool, from the Toolset Menu, click **Audit**.

The Audit Tool Message Search Criteria/Results page is displayed.

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

2.2 MESSAGE SEARCH CRITERIA/RESULTS PAGE 1

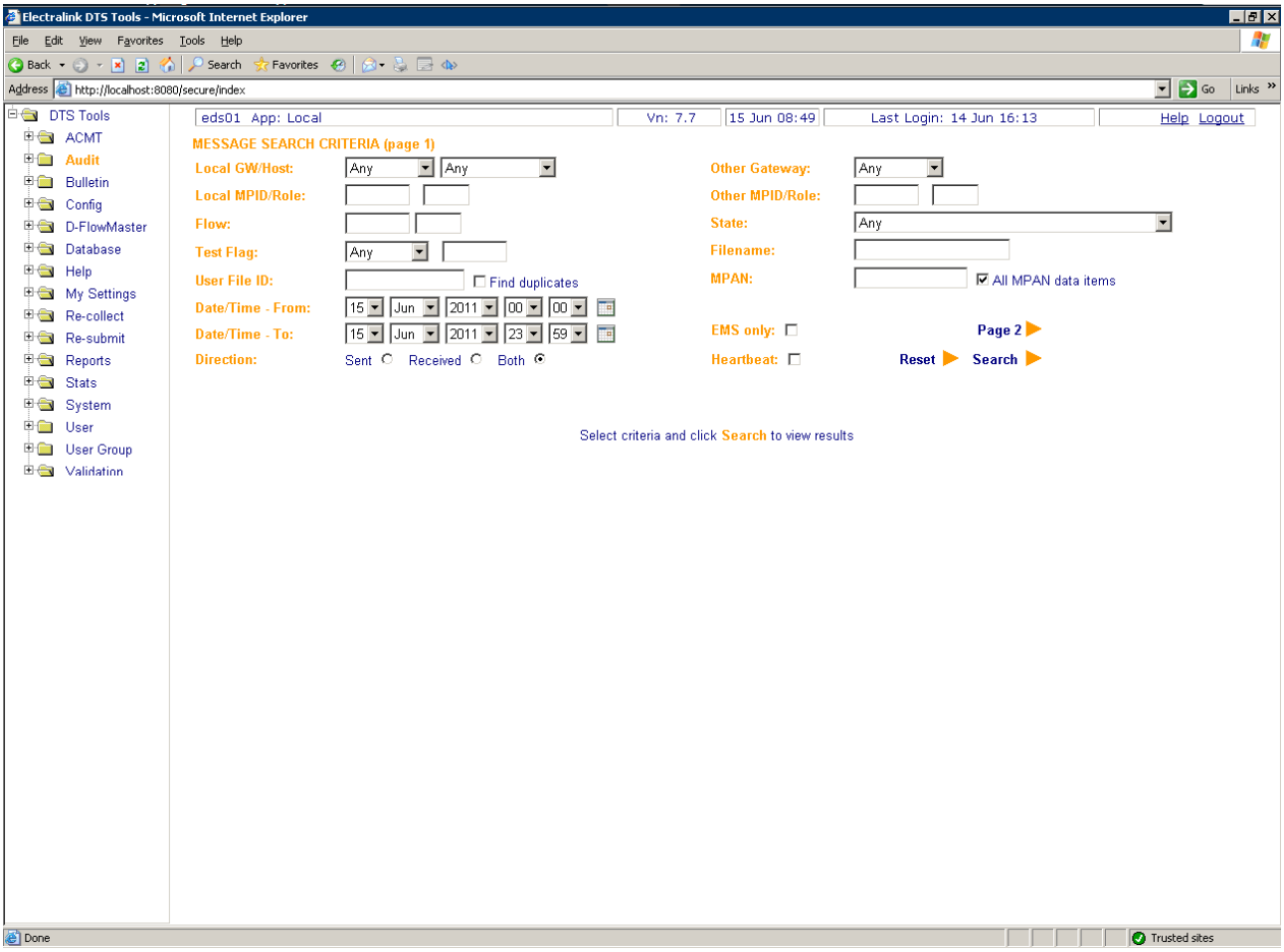

Figure 2-1 Message Search Criteria Page 1

Message Search Criteria/Results page 1 displays the search criteria that a User can apply to search for a Message. A search can use all the criteria or some of the criteria depending on the User's preference and access rights. All drop list fields are mandatory. The results are displayed in a table.

The results displayed in the table are dependent upon a User's access rights. The Messages are displayed in date and time order with the most recent displayed first.

The Audit Tool provides the ability to refine searches for specific information. For example, search to find all messages that had not been delivered.

2.3 SEARCHING FOR A MESSAGE

1. To search for a Message, from the drop lists, select the relevant criteria and in the text field enter the relevant information.

   For all text fields, except Test Flag (non-standard), User File ID, Filename and MPAN, multiple entries can be entered by separating each entry with a space. User File ID and Filename allow wildcard characters so that partial names can be supplied. See below for more details.

2. Click **Search** ▶.

   Results of the search are displayed in the Message Search Results table.

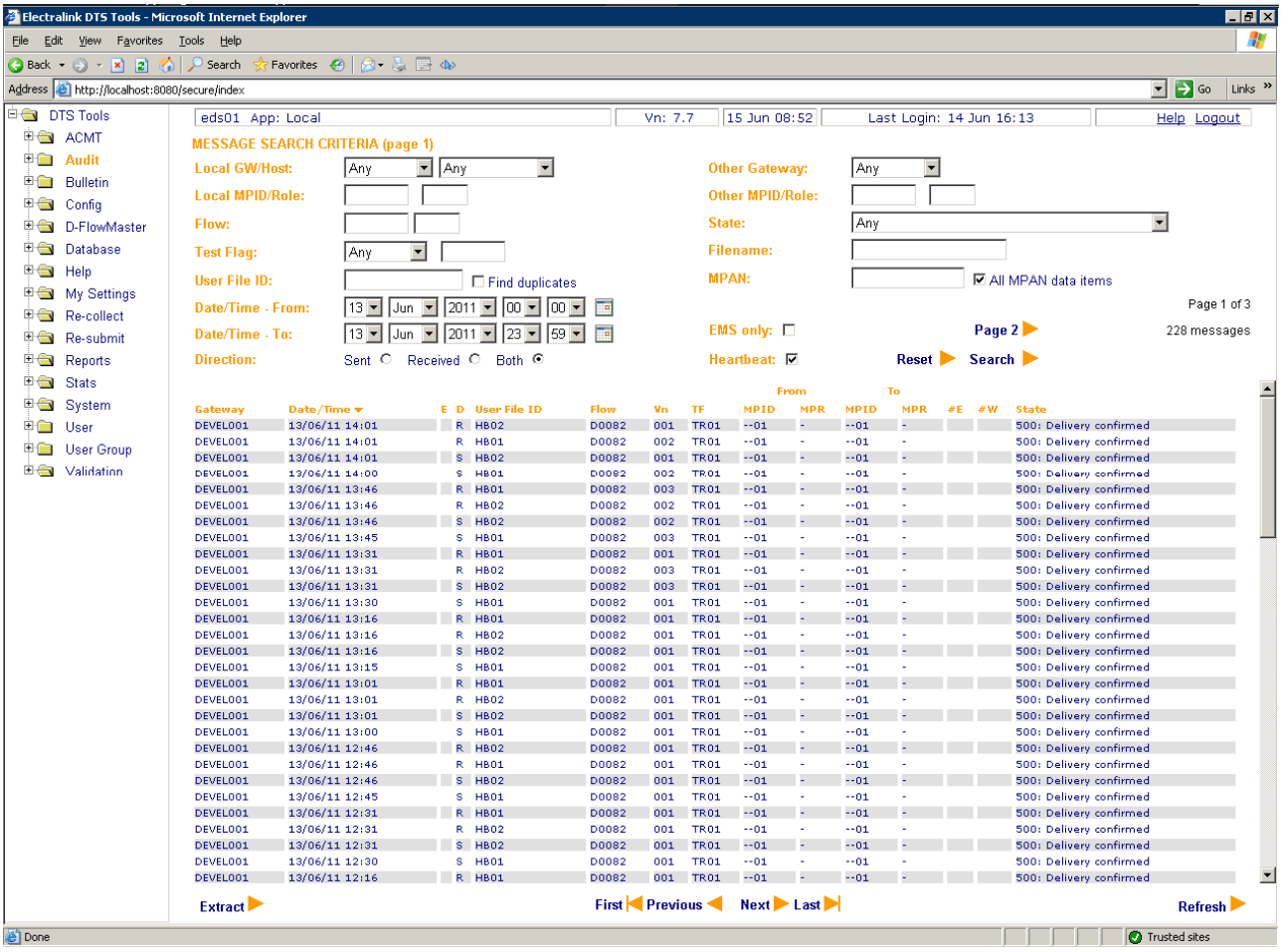

Figure 2-2 Message Search Results

3. To reset the search criteria click **Reset** ▶.

This clears all previous search criteria except:

- the date field, which displays the current date
- the time from field, which displays 00:00
- the time to field which displays 23:59.

2.4 SEARCH CRITERIA

The following criteria can be used to search for a Message:

Local GW	The User's Gateway. A Gateway is a server that provides a User access to the Data Transfer Service. A User may have access to more than one Local Gateway and all such Gateways will be displayed in the drop list. Selecting 'Any' will search for Messages associated with any of these Gateways.
Local Host	The User's Host. A Host is a set of directories, either on the Gateway or on a server on the User's LAN that provides an interface with the Data Transfer Service for the submission and collection of User Files. A User may have access to more than one Local Host and all such Hosts will be displayed in the drop list. Selecting 'Any' will search for Messages associated with any of these Hosts. It is not necessary to pre-select the Gateway before selecting the Host. If a

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

	specific Host is selected the Gateway will be automatically set to the one associated with the selected Host.
Other Gateway	The Gateway of another User. A Gateway is a server that provides a User access to the Data Transfer Service. A User may have access to more than one Other Gateway and all such Gateways will be displayed in the drop list. Selecting 'Any' will search for Messages associated with any of these Gateways.
Local MPID	The Local Market Participant Identifier (MPID) or Originator/Recipient ID. The MPID and other identifiers are assigned by relevant bodies in the electricity and gas industries. A User may have more than one identifier. To enter a Local identifier, type the identifier in the text field. Multiple entries must be separated by a space.
Other MPID	The Market Participant Identifier (MPID) or Originator/Recipient ID of another User. The Market Participant Identifier and other identifiers are assigned by relevant bodies in the electricity and gas industries. A User may have more than one identifier. To enter an Other MPID, type the identifier in the text field. Multiple entries must be separated by a space.
Local Role	The User's Role. The Role is the function a company provides within the electricity industry. To enter a Local Role, type the Role in the text field. Multiple entries must be separated by a space.
Other Role	The Role of another User. The Role is the function a company provides within the electricity industry. To enter an Other Role, type the Role in the text field. Multiple entries must be separated by a space.
Flow	The number or name assigned to a specific Data Flow or File Type. To enter a Flow, type the Flow Number (including the D prefix e.g. D0010) or the File Type name (e.g. ONAGE) in the text field. Multiple entries must be separated by a space.
Version	Data Flow Version number of the Message. To enter a Version, type the Data Flow Version number in the text field. Multiple entries must be separated by a space. The Version number for RGMA flows is always 001.
Test Flag	The Message Test Flag/File Usage Code. This can either be a standard Test Flag selected from the drop-down list or a non-standard, free-format Test Flag entered in the adjacent field. The system ensures that only a single Test Flag can be supplied for a search. Selecting 'Any' will search for Messages containing any Test Flag.
State	From the drop list select the State of the Message. Selecting 'Any' will search for Messages in any state. Selecting 'Failed due to data errors' will show all files that failed validation.

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

	Selecting 'Delivered with warnings' will show all files that were delivered but generated validation warnings. Please refer to Message Codes and States at paragraph 2.14 for a complete list of Message states.
File ID	The File Identifier assigned by the sender of the Message To enter a File ID, type the File ID in the text field. If a partial File ID is specified, any Message whose File ID starts with the characters entered will be displayed. This field also supports the use of the '%' character as a wild card. Here are some examples of how it works: User File Id being searched for : 0000919588 The following searches would match against this value %919588 (wildcard at the start) 00%88 (wildcard in the middle) 00009195 (implied wildcard at the end) Note that using wildcards can slow SQL queries down. If the Find duplicates checkbox is clicked then only Messages which have duplicate File IDs within the other search criteria will be displayed.
Filename	The Filename used by the local Gateway. To enter a Filename, type the Filename in the text field. If a partial filename is specified, any Message whose filename starts with the characters entered will be displayed. This field also supports the use of the '%' character as a wild card. Here are some examples of how it works: Filename being searched for : rswa0000919588.usr The following searches would match against this value %0000919588.usr (wildcard at the start) rswa%919588.usr (wildcard in the middle) rswa0000919588 (implied wildcard at the end) %919588 (wildcard at the start, and implied wildcard at the end) Note that using wildcards can slow SQL queries down. (Note that for the standard DTS service, there are two physical filenames associated with each Message. The sender assigns a filename to the Message when the Message is created and this file is sent to the Data Transfer System

	(DTS). The DTS then transfers the Message to the recipient Gateway and creates a new file on that Gateway with a new filename. If a Message is sent from the local Gateway, then the sender assigns the filename. If a Message is received by the local Gateway, then the filename is assigned by the DTS.)
MPAN	If specified in the search criteria, this will restrict the list of files returned by the search to those containing a reference to the given MPAN. Note, you may include a wildcard character (%) in the MPAN field to look for files containing MPANs that have any sequence of characters at that position. Using wildcards will result in increasingly slower response times the closer to the left of the MPAN value it is used. E.g. a query for MPANs matching '100000000000%' will be significantly quicker than a query for '1%'. If the All MPAN data items checkbox is checked then the MPAN search will include all alias and synonym fields of MPAN data items, not just the J0003 MPAN data item.
EMS Only	If selected the search results will only contain files currently held in EMS. Otherwise both files in EMS and files not in EMS will be returned.
Date/Time – From	A User can search for Messages between a defined date range. If no date and time are defined, the date defaults to the current date and the time defaults to 00:00hrs.
Date/Time – To	A User can search for Messages between a defined date range. If no date and time are defined, the date defaults to the current date and the time defaults to 23:59hrs.
Direction	The direction of the Message for which a User is searching. A User can search for Messages that are either: • Sent = Message sent from the User's Gateway only • Received = Message sent to the User's Gateway only • Both = Both sent and received Messages

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

2.5 MESSAGE SEARCH RESULTS TABLE

The fields in the Message Search Results Table are detailed below:

Gateway	The Gateway from which the Message was sent. A Gateway is a server that provides a User access to the Data Transfer Service. The local Gateway ID is displayed where a Message has been sent. The Gateway ID of the sender is displayed where a Message has been received.
Date/Time	This displays the date and time that the Message was sent or received.
E	Displays '*' if the file is currently held in the Extended Message Store.
D	Displays 'S' where the Message has been sent by the local Gateway. Displays 'R' where the Message has been received by the local Gateway.
User File ID	The file identifier assigned to a Message by the sender. By positioning the mouse pointer over this field, the physical file name can be viewed.
Data Flow	Flow Number e.g. D0010, or File Type e.g. ONAGE etc. The number or name assigned to a specific Data Flow/File Type.
Vn	Data Flow Version number. The version number changes when a Data Flow is modified. RGMA File Types always have a version number of 001.
TF	The Test Flag/Usage Code of the Message.
From MPID	Displays the Market Participant Identifier (MPID) or Originator ID from which the Message was sent.
From MPR	Displays the Role from which the Message was sent**.** The Role is the function a company provides within the electricity industry.
To MPID	Displays the Market Participant Identifier (MPID) o Recipient ID to which the Message was sent.
To MPR	Displays the Role to which the Message was sent**.** The Role is the function a company provides within the electricity industry.
#E	The total number of validation errors detected in the Message.
#W	The total number of validation warnings detected in the Message.
State	Displays the current status of the Message. The Message state may change when the table is refreshed. Please refer to Message Codes and States at paragraph 2.14 for a complete list of Message states.
MPAN	This column is only displayed after performing a search for files meeting criteria in which multiple, or wild-carded, MPANs have been specified. It displays the numerically lowest MPAN meeting the search criteria that is referenced in the user file.
Query Id	This column is only displayed after performing multi-criteria searches using a search criteria file. See Message Search Criteria/Results Page 2 at paragraph 2.6. It indicates which query in the search criteria file the result line relates to.
Page 1 of 1	Displays the current page a User is viewing and the total number of pages.
1 message	The total number of messages returned by the search

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

A maximum of 100 Messages are displayed per page in the Table of Results and can be viewed using the scroll bar.

1. To display the next page of Messages, click **Next**.
4. To display the previous page of Messages, click **Previous**.
5. To display the last page of Messages, click **Last**.
6. To return to the first page of Messages, click **First**.
7. To update the Message, click **Refresh**.
8. To display further Message details, from the Message Search Results table, click the relevant Message.

The Message Details are displayed in a new page. The Message Search Criteria/Results page remains open.

2.6 MESSAGE SEARCH CRITERIA/RESULTS PAGE 2

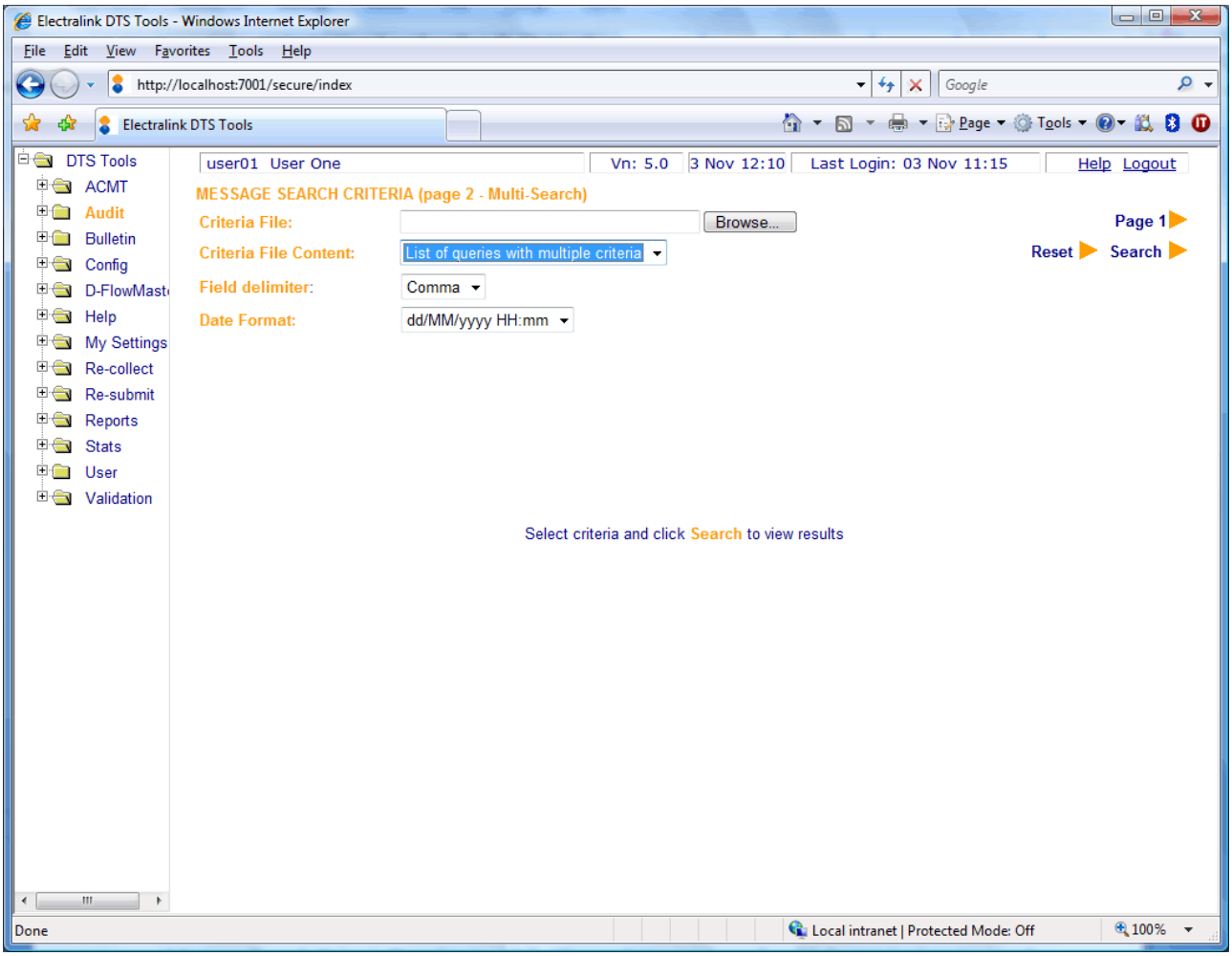

Figure 2-3 Message Search Criteria/Results Page 2

Message Search Criteria/Results page 2 facilitates the execution of multiple queries in one search operation. Multiple query searches are requested by uploading a file of search criteria. Each record of the uploaded file represents one query, and contains search criteria that augment and override the criteria defined on page 1.

The simplest use of this facility is to upload a file with a list of MPANs, User File IDs or file names.

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

If the file contains a list of MPANs, the search results will be augmented with an MPAN column, so that the results can be correlated to the MPANs in the file. In this case the message state column of the search results will be truncated to show only the code and not the description.

If the file contains a list of User File IDs or a list of file names, the results list is displayed as for normal queries. The User File ID is clearly displayed allowing correlation of the results to the queries, but to view a file name, the mouse must be moved over the User File ID to reveal the name in a tool-tip. The file name is not included on the display due to insufficient space for names that could be up to 64 characters long. If this is inconvenient, consider extracting the results to a file where the filenames are included in full.

Finally, if the file contains a list of multi-criteria queries the results be augmented with a query ID column, so that the results can be correlated to the queries in the file. Again, in this case the message state column will be truncated to show only the code.

2.7 CRITERIA FILE FORMAT

Simple criteria files are those that just contain a list of MPANs, User File Identifiers or filenames. These files do not require a header, however each item must be on a separate line.

More complex queries can be specified by including multiple criteria on each line of the file. In this case the file must contain a header record that identifies the content of each subsequent record. The following name tokens will be recognised in the header record:

- QUERY_ID
- LOCAL_GATEWAY
- LOCAL_MPID
- LOCAL_ROLE
- REMOTE_GATEWAY
- OTHER_MPID
- OTHER_ROLE
- FLOW
- FLOW_VERSION
- FORMAT
- TEST_FLAG
- MESSAGE_STATE
- USER_FILE_ID
- FILENAME
- MPAN
- DIRECTION
- FROM_DATE
- TO_DATE

Any number of these may be specified, and in any order. The only restriction is that every record in the file has the same number, type, and order of fields as specified in the header. Each field type has the same interpretation and use as the corresponding field on page 1 of the message search criteria, with the exception of QUERY_ID. This field allows you to correlate search results to a specific set of search criteria defined in your file. If absent, each query will be identified numerically by its position in the file starting at position 1.

The search criteria on each line must be separated by commas, pipes(|), spaces, tabs or some other user defined sequence of characters.

 Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

Field values must not be enclosed in quotes.

All lines are processed; there is no provision for comment lines.

Lines may be terminated with UNIX (<LF>) or Windows style line terminators (<CR><LF>).

Example Criteria file:

```
LOCAL_MPID,MESSAGE_STATE,DIRECTION,FROM_DATE,TO_DATE
POC1,500,S,01/02/2008 00:00,29/02/2008 23:59
POC2,500,S,01/02/2008 00:00,29/02/2008 23:59
POC3,500,S,01/02/2008 00:00,29/02/2008 23:59
```

2.8 PERFORMING MULTIPLE SEARCHES

1. To perform multiple searches, enter the basic search criteria on page 1 and then enter the path to the supplemental criteria file in Criteria File: (using the browse facility if desired) on page 2. Then select the type of data being uploaded from the Criteria File Content: drop down list.
2. If the content of the supplemental criteria file is a 'List of queries with multiple criteria', then also select the field delimiter character and date format from the Field Delimiter: and Date Format: fields. The latter is only necessary if the criteria file contains date/time fields.

   If the standard field delimiters in the list are not appropriate, select 'Other' and enter the delimiter character(s) in the adjacent data entry field. The following characters have special meaning in regular expressions so if your delimiter includes one (or more) of them each one should be preceded with a backslash (\) to ensure it is simply interpreted as that character:

   - the opening square bracket [
   - the closing square bracket]
   - the backslash \
   - the caret ^
   - the dollar sign $
   - the period or dot .
   - the vertical bar or pipe symbol |
   - the question mark ?
   - the asterisk or star *
   - the plus sign +
   - the opening round bracket (
   - the closing round bracket)
   - the opening brace {
   - the closing brace }

For example if your field values are separated by two asterisks (**), enter ** as the delimiter.

If an appropriate date format pattern is not available in the list, select 'Other' and enter your custom pattern in the adjacent data entry field. The characters in the pattern have the following meaning:

Letter	Date or Time Component	Examples

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

G	Era designator	AD
y	Year	1996; 96
M	Month in year	July; Jul; 07
w	Week in year	27
W	Week in month	2
D	Day in year	189
d	Day in month	10
F	Day of week in month	2
E	Day in week	Tuesday; Tue
a	Am/pm marker	PM
H	Hour in day (0-23)	0
k	Hour in day (1-24)	24
K	Hour in am/pm (0-11)	0
h	Hour in am/pm (1-12)	12
m	Minute in hour	30
s	Second in minute	55
S	Millisecond	978
z	Time zone	Pacific Standard Time; PST; GMT-08:00
Z	Time zone	-0800

3. Click **Search** and respond appropriately to the confirmation request. Results of the search are displayed in the Message Search Results table.

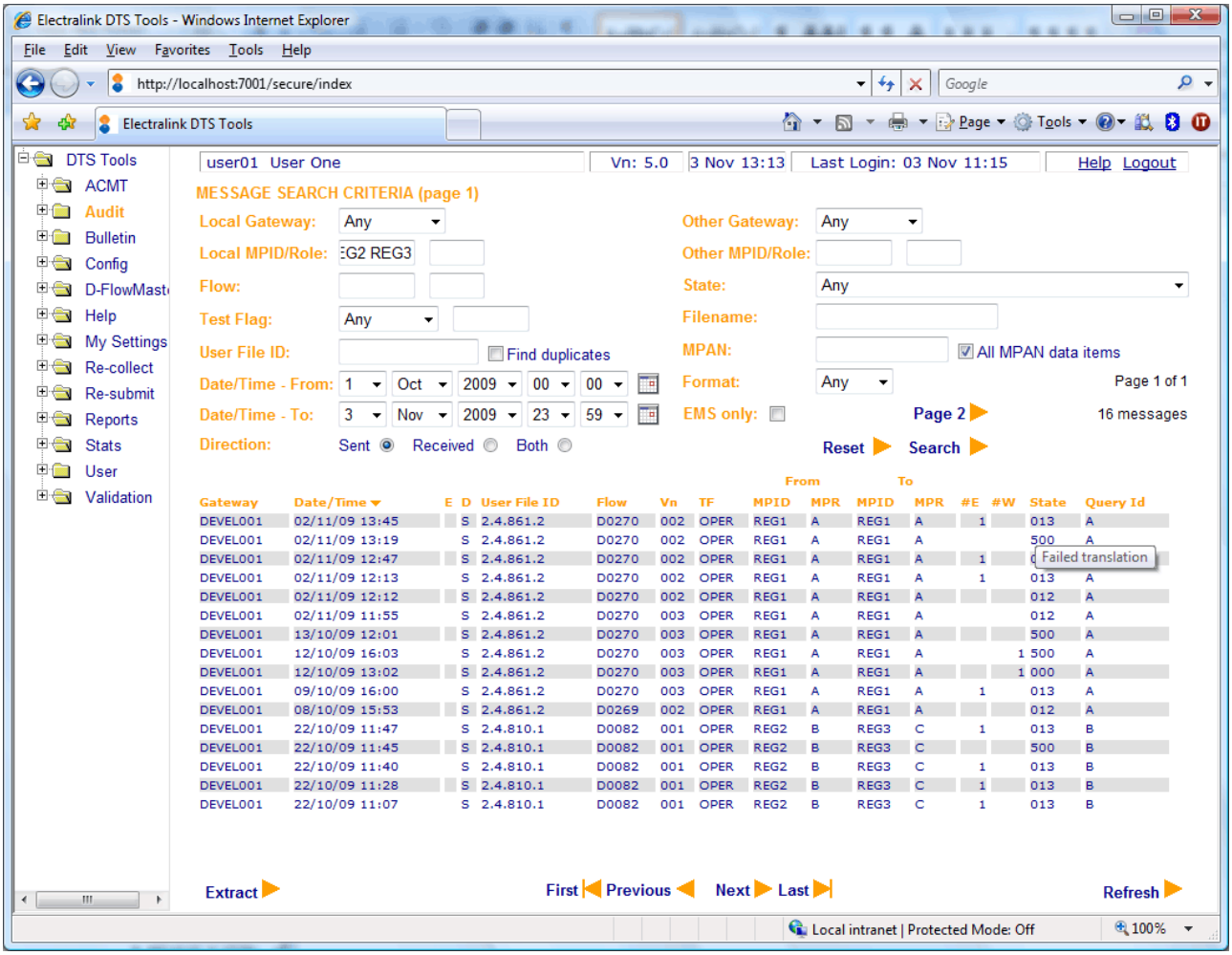
Electralink DTS Tools - Windows Internet Explorer
File Edit View Favorites Tools Help
http://localhost:7001/secure/index
Electralink DTS Tools
DTS Tools
ACMT
Audit
Bulletin
Config
D-FlowMast
Help
My Settings
Re-collect
Re-submit
Reports
Stats
User
Validation
user01 User One
Vn: 5.0
3 Nov 13:13
Last Login: 03 Nov 11:15
Help Logout
MESSAGE SEARCH CRITERIA (page 1)
Local Gateway: Any
Local MPID/Role: EG2 REG3
Flow:
Test Flag: Any
User File ID:
Find duplicates
Date/Time - From: 1 Oct 2009 00 00
Date/Time - To: 3 Nov 2009 23 59
Direction: Sent Received Both
Other Gateway: Any
Other MPID/Role:
State: Any
Filename:
MPAN:
All MPAN data items
Format: Any
EMS only:
Page 1 of 1
Page 2
16 messages
Reset
Search
From
To
Gateway Date/Time E D User File ID Flow Vn TF MPID MPR MPID MPR #E #W State Query Id
DEVEL001 02/11/09 13:45 S 2.4.861.2 D0270 002 OPER REG1 A REG1 A 1 013 A
DEVEL001 02/11/09 13:19 S 2.4.861.2 D0270 002 OPER REG1 A REG1 A 500 A
DEVEL001 02/11/09 12:47 S 2.4.861.2 D0270 002 OPER REG1 A REG1 A 1
Failed translation
DEVEL001 02/11/09 12:13 S 2.4.861.2 D0270 002 OPER REG1 A REG1 A 1 013 A
DEVEL001 02/11/09 12:12 S 2.4.861.2 D0270 002 OPER REG1 A REG1 A 012 A
DEVEL001 02/11/09 11:55 S 2.4.861.2 D0270 003 OPER REG1 A REG1 A 012 A
DEVEL001 13/10/09 12:01 S 2.4.861.2 D0270 003 OPER REG1 A REG1 A 500 A
DEVEL001 12/10/09 16:03 S 2.4.861.2 D0270 003 OPER REG1 A REG1 A 1 500 A
DEVEL001 12/10/09 13:02 S 2.4.861.2 D0270 003 OPER REG1 A REG1 A 1 000 A
DEVEL001 09/10/09 16:00 S 2.4.861.2 D0270 003 OPER REG1 A REG1 A 1 013 A
DEVEL001 08/10/09 15:53 S 2.4.861.2 D0269 002 OPER REG1 A REG1 A 012 A
DEVEL001 22/10/09 11:47 S 2.4.810.1 D0082 001 OPER REG2 B REG3 C 1 013 B
DEVEL001 22/10/09 11:45 S 2.4.810.1 D0082 001 OPER REG2 B REG3 C 500 B
DEVEL001 22/10/09 11:40 S 2.4.810.1 D0082 001 OPER REG2 B REG3 C 1 013 B
DEVEL001 22/10/09 11:28 S 2.4.810.1 D0082 001 OPER REG2 B REG3 C 1 013 B
DEVEL001 22/10/09 11:07 S 2.4.810.1 D0082 001 OPER REG2 B REG3 C 1 013 B
Extract
First Previous Next Last
Refresh
Local intranet | Protected Mode: Off
100%

Figure 2-4 Multiple search criteria results

1. To reset the search criteria click **Reset** ▶.

Note: It is important to clear the Criteria File name field for subsequent searches otherwise the criteria file will be uploaded, and multiple searches performed, for each request. For this reason the user is asked to confirm each time a search based on a criteria file is requested.

2.9 MESSAGE DETAILS

The Message Details page displays all the details of the selected Message. If the message is a sent message and there were validation errors or warnings detected then these will be shown by default. Otherwise, audit event history will be displayed in date and time order showing when the file passed through each stage of processing on the DTS. Users can toggle between displaying errors and displaying audit events.

A User can open multiple Messages Details windows simultaneously. Each window will use the File ID as an identifier and the File ID will be displayed in the title bar of the page.

The system will not allow more than one window for the same File ID to be opened. If a User attempts to open the same File ID more than once, the information in the original File ID window is displayed and updated.

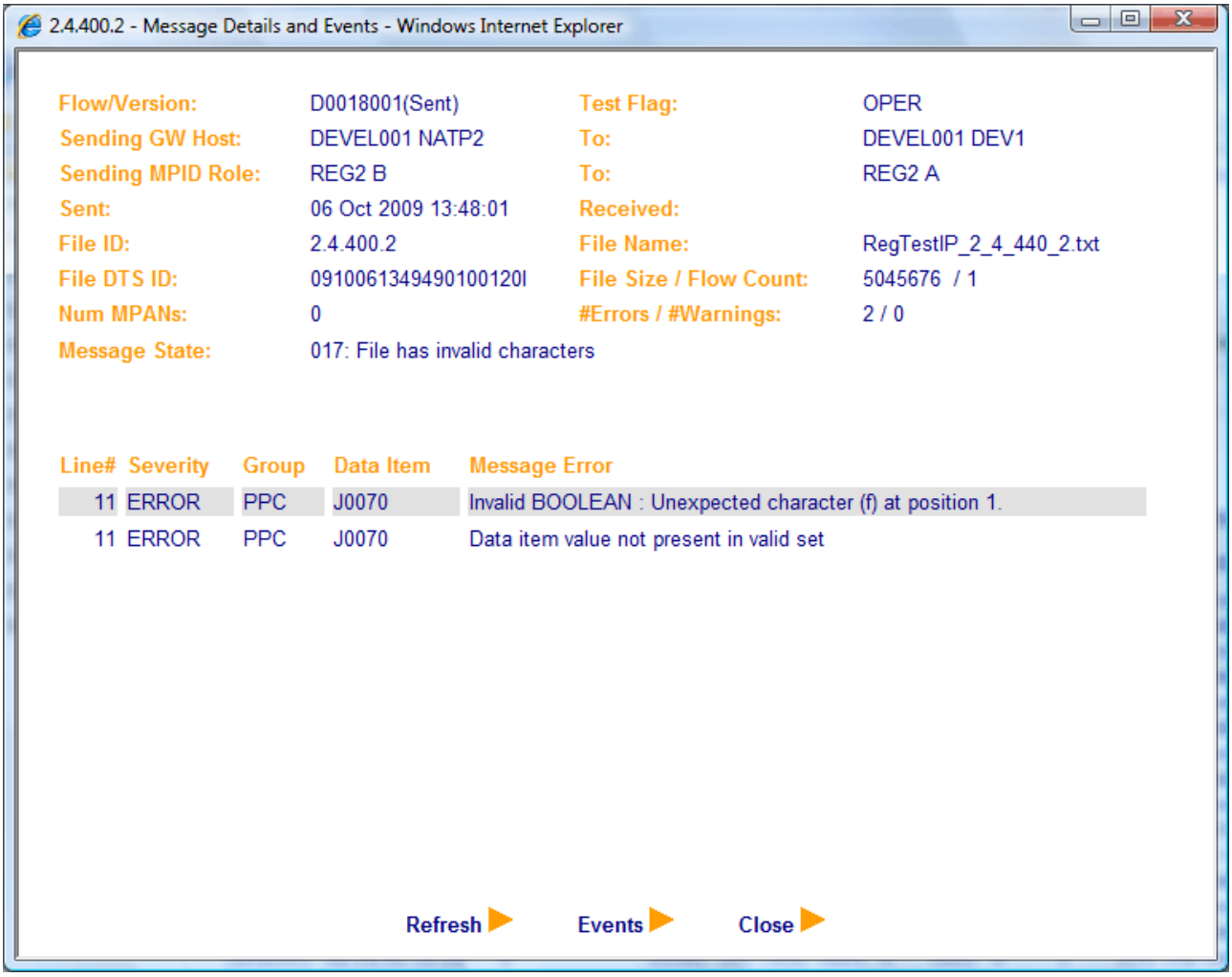
2.4.400.2 - Message Details and Events - Windows Internet Explorer
Flow/Version: D0018001(Sent)
Test Flag: OPER
Sending GW Host: DEVEL001 NATP2
To: DEVEL001 DEV1
Sending MPID Role: REG2 B
To: REG2 A
Sent: 06 Oct 2009 13:48:01
Received:
File ID: 2.4.400.2
File Name: RegTestIP_2_4_440_2.txt
File DTS ID: 09100613494901001201
File Size / Flow Count: 5045676 / 1
Num MPANs: 0
#Errors / #Warnings: 2 / 0
Message State: 017: File has invalid characters
Line# Severity Group Data Item Message Error
11 ERROR PPC J0070 Invalid BOOLEAN : Unexpected character (f) at position 1.
11 ERROR PPC J0070 Data item value not present in valid set
Refresh
Events
Close

Figure 2-5 Message Details Page – Errors view

2.4.400.2 - Message Details and Events - Windows Internet Explorer
Flow/Version: D0018001(Sent)
Test Flag: OPER
Sending GW Host: DEVEL001 NATP2
To: DEVEL001 DEV1
Sending MPID Role: REG2 B
To: REG2 A
Sent: 06 Oct 2009 13:48:01
Received:
File ID: 2.4.400.2
File Name: RegTestIP_2_4_440_2.txt
File DTS ID: 09100613494901001201
File Size / Flow Count: 5045676 / 1
Num MPANs: 0
#Errors / #Warnings: 2 / 0
Message State: 017: File has invalid characters
Date/Time
Event
06 Oct 2009 13:48:01 Starting to receive user file
06 Oct 2009 13:50:13 User file received
06 Oct 2009 13:50:18 Encrypting
06 Oct 2009 13:50:31 Encrypted
06 Oct 2009 13:50:33 Transmitted to hub
06 Oct 2009 13:50:38 Decrypting
06 Oct 2009 13:50:38 Received by hub
06 Oct 2009 13:50:44 Validating and translating
06 Oct 2009 13:50:44 Decrypted
06 Oct 2009 13:51:01 Validation/translation failed
06 Oct 2009 13:51:18 Ack: Encrypting
Refresh
Errors
Close

Figure 2-6 Message Details Page – Events view

1. To update the Message Details page, click **Refresh**.
   The Message Details page is updated displaying current information.
2. To display all the MPANs in the Message click the ‘open’ icon next to the Num MPANs field.
3. To toggle to the list of Message validation errors/warnings, click **Errors**.
4. To close the Message Details page, click **Close**.

Data in the Message Details Window that is supplemental to the summary search results:

File Size / Flow Count	File size is the count of the number of characters the file contains. Flow Count is the number of flows the file contains
Num MPANs	The number of distinct MPAN references discovered in the Message. If this is greater than zero a folder icon will appear next to this number allowing the list on MPANS to be viewed.
File DTS ID	Unique internal system identifier for the file.

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

2.10 MPAN LIST

The MPAN List page enables the user to display the MPANs in the message.

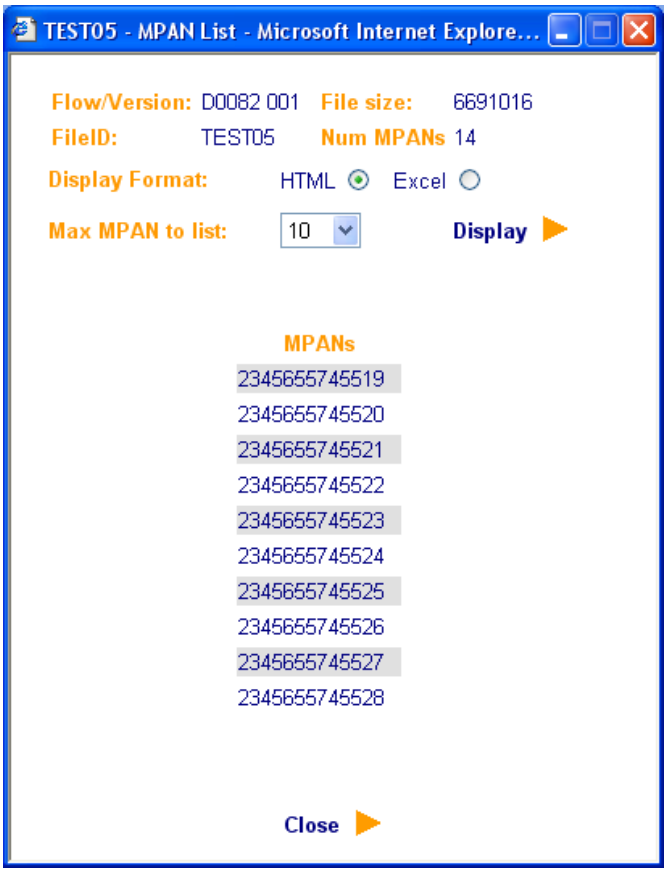

Figure 2-7 MPAN List Page

The MPANs may be listed in HTML or Excel formats. HTML format displays the MPANs on the MPAN List window itself. Excel format opens a Microsoft Excel spreadsheet listing the MPANs.

Additionally the maximum number of MPANs to list may be selected. The options are 10, 50, 100, or ALL. The default for HTML format is 10 MPANs and the default for Excel format is ALL. This option is provided for large files which may contain large numbers of MPANs which

Once the display format and number of MPANs have been selected the MPANs may be listed by clicking the **Display** button.

2.11 EXTRACTING RESULTS TO A FILE.

The results of a search, or the validation errors and warnings in Messages referenced by the search results, may be extracted to a spreadsheet file on your PC. To do this, click the **Extract** button. This will open the following window allowing you to initiate an extract and download extract files generated earlier within your current session:

Copyright © 2003, 2004-2010 Hewlett-Packard Development Company, L.P.

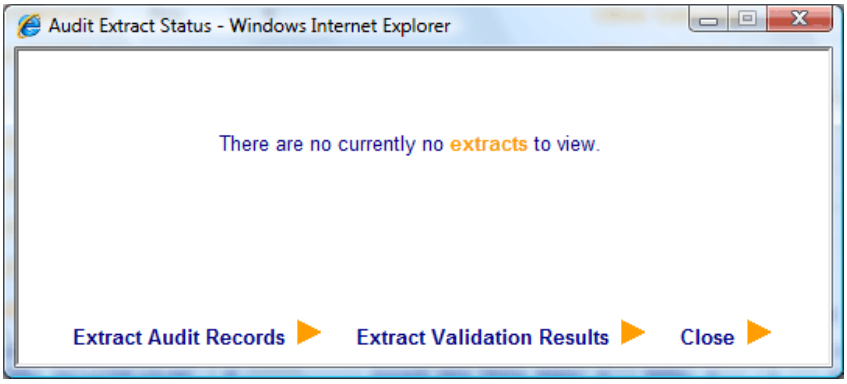
Audit Extract Status - Windows Internet Explorer
There are no currently no extracts to view.
Extract Audit Records
Extract Validation Results
Close

Figure 2-8 Audit Extract Status – prior to initiating an extract

Once initiated, the extract process runs in the background, allowing the window to be closed and WebTools to be used in the meantime if the query takes a long time to complete.

Once an extract is initiated the screen will refresh every 2 seconds, showing the status of the extract. This will indicate if the process is still running or has completed successfully.

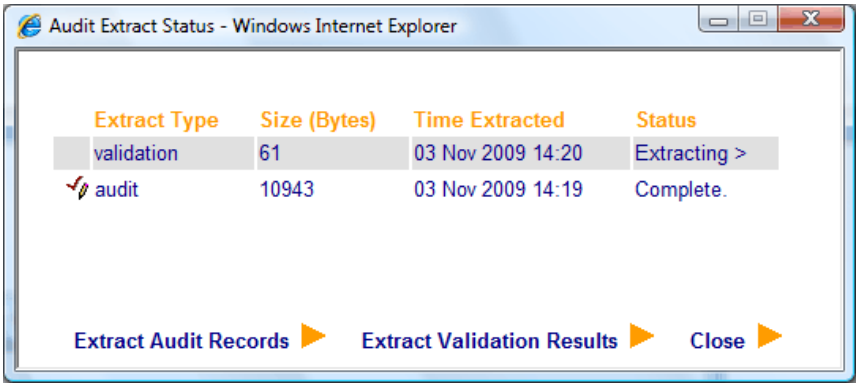

Figure 2-9 Audit Extract Status – while an extract is in progress

When the file is marked as 'Complete' then it may be opened or saved to a local folder by clicking on the tick.

Note: Only one extract may be running at any given time during a user's login session. A completed extract files is only available to view/save for the course of this session and so should be saved before logging out of the tool set.

2.12 Sorting Results

The Audit search results may be sorted in ascending/descending order of most of the displayed columns. If the results can be sorted by the results in a column then the column title will become underlined if the mouse pointer is hovered over it.

To sort, click on the appropriate column heading. The sort is initially in ascending order - subsequent search on the same column will sort in descending order.

An up-arrow or down-arrow will be displayed to indicate the column and direction of the most recent sort.

Note: The sorting of data is most efficient for result sets of less than 1000 files. If the result set of a multiple query search contains over one thousand records, attempts to re-sort the results will not sort the entire set of records; it will only sort the results of each individual query. For more effective sorting, consider running fewer queries, so the result set contains less than one thousand records, or extract the results to a file and use your spreadsheet program to sort the results.

2.13 Successful Message Transmission

A successful Message transmission will display the state as **500 : File delivery confirmed**.

For all other states, please see Message Codes and States at paragraph 2.14.

The events for a successful Message transmission are displayed below:

Event	Location of Message
Starting to receive user file	Message on originator's Gateway
User file received from originator	Message on originator's Gateway
Encrypting	Message on originator's Gateway
Encrypted	Message on originator's Gateway
Transmitted to hub	Message transmitted from originator's Gateway to the hub
Received by hub	Message on hub
Decrypting	Message on hub
Decrypted	Message on hub
Validating & translating	Message on hub
Validated & translated	Message on hub
Encrypting	Message on hub
Encrypted	Message on hub
Transmitted from hub to Gateway	Message transmitted from hub to recipient's Gateway
Received by recipient's Gateway	Message on recipient's Gateway
Decrypting	Message on recipient's Gateway
Decrypted	Message on recipient's Gateway
Transmitting to User	Message being transmitted to recipient or copied to collection directory on recipient's Gateway
Transmitted to User	Message now available to recipient
Acknowledgement created	Acknowledgement created on hub
Ack: Encrypting	Acknowledgement on hub
Ack: Encrypted	Acknowledgement on hub
Ack: Transmitted from hub to Gateway	Acknowledgement transmitted from hub to originator's Gateway
Ack: Received by originator's Gateway	Acknowledgement on originator's Gateway
Ack: Decrypting	Acknowledgement on originator's Gateway
Ack: Decrypted	Acknowledgement on originator's Gateway
Ack: Transmitting to User	Acknowledgement being transmitted to originator or copied to collection directory on originator's Gateway
Ack: Transmitted to User	Acknowledgement now available to originator

The acknowledgement is considered part of the file transfer and doesn't appear as a separate Message in the Message Search Results Table.

2.14 MESSAGE CODES AND STATES

The following Message codes and states are used by the Data Transfer Service and are useful when investigating Messages that have not been received.

A full event history of a Message can be viewed in Message Details page at paragraph 2.9.

Code	State
000	File being processed…….. awaiting delivery confirmation.
010	File not sent. Failed translation code
011	File not sent. Your Gateway is not configured to send this data flow.
012	File not sent. Receiving Gateway is not configured for this data flow.
013	File not sent. Failed translation.
014	File not sent. File has incorrect group count in trailer. Please check.
015	File not sent. File header details are incorrect. Please check.
016	File not sent. File trailer details are incorrect. Please check.
017	File not sent. File has invalid characters.
018	File not sent. File has an incomplete group.
020	File not sent. Failed encryption code
030	File not sent. Failed to address file.
040	File not sent. Failed to queue file.
050	File not sent. Failed to send file.
060	File not sent. Failed to deliver file.
070	File not sent. Failed decryption.
500	File delivery confirmed.